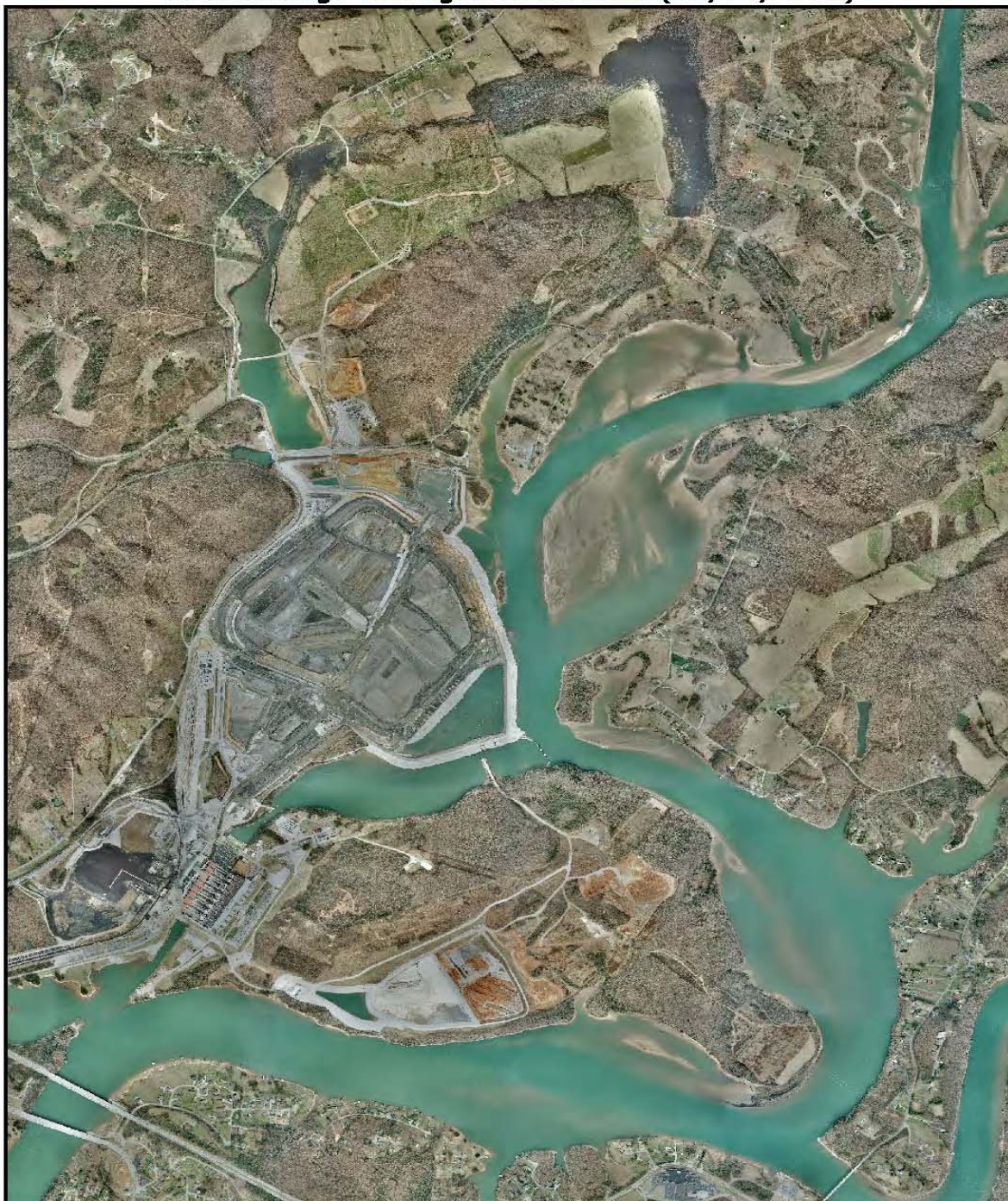


KINGSTON RECOVERY PROGRAM MANAGEMENT SITE MONTHLY REPORT

April, 2013

Aerial Image of Kingston Ash Slide (03/04/2013)



0 1,000 2,000 3,000 4,000
Feet

Date of imagery: 03/04/2013

Filename: ImageOnly_20130704_8x11

Tennessee Valley Authority
Realty, GIS & Land Records

KINGSTON RECOVERY PROGRAM MANAGEMENT SITE

MONTHLY REPORT

April, 2013

SAFETY

- Thirty-four individuals attended site-specific Health, Safety and Environment (HSE) orientations during April, 2013 – 2,366 project-to-date. Zero site-specific refresher courses were conducted during the month of April, 2013 - 435 project-to-date.
- Sixty (60) Safety Observation Reports (SORs) were submitted during April, 2013 – 3,904 year-to-date; 3904 are closed.
- A strategic safety planning meeting was held to outline a plan for the site to finish the project incident free.
- A site safety survey was developed and launched to capture the field employees perspective of what is working and what is not working in regard to safety.
- First quarter (calendar year) industrial hygiene (IH) results were reviewed. No changes in sampling strategy or frequency are required at this time.

INFRASTRUCTURE / ASH MANAGEMENT

- Efforts for site maintenance, dust control, and Hazardous Waste Operations and Emergency Response (HAZWOPER) control continued.
- Continued recovering cenospheres from the onsite ponds.
- Continued borrow excavation.
- Started Kingston Entrance Restoration project.

ASH SLURRY AND POND TOTAL SUSPENDED SOLIDS (TSS) CONTROL

- Daily total suspended solids (TSS) sampling and pH monitoring were performed throughout the ash slurry system. The TSS of the Main Ash Pond effluent (Agri-Drain outlet) averaged 293.4 mg/L and the Stilling Pond effluent averaged 13.3 mg/L for April, 2013.
- The Ash Pond effluent polymer addition (Agri-Drain location) rates were adjusted based on TSS levels during April, 2013. Ascetic acid was applied to control pH in the Stilling Pond.
- The plant began April, 2013 with 6 units online and ended with 6 units operating.
- Bottom ash was dipped during April, 2013 from the Sluice Trench.

PLANT ASH STORAGE / INTERIM ASH STORAGE AREA (BALLFIELD)

- Trans-Ash placed and compacted dry flyash during April, 2013.
- Geosyntec provided Quality Control and Assurance during April, 2013 for the Interim Ash Staging Area (IASA).
- The Kingston Fossil Plant (KIF) operated from 6 to 8 units during April, 2013 - average of 6.56.

CENOSPHERE CONTROL ACTIVITIES

- Daily pond inspections were performed for all ponds.
- Collection of cenospheres by hydro-vacuum truck was not carried out in April, 2013. Cenosphere removal is scheduled for multiple days in April, 2013.

ROUTINE MONITORING

Surface Water Sampling

- Continued routine surface water monitoring. All monthly Stilling Pond results received to-date have shown compliance with the outfall National Pollutant Discharge Elimination System (NPDES) permit.
- There were rainfall events on April 4, 11, 19, and 24, 2013 that triggered storm flow sampling in Swan Pond Embayment.
- Automated monitoring stations (Hydrolabs) are online continuously monitoring surface water conditions at 6 locations; one in the Middle Embayment Settling Basin, two in the Clean Water Ditch (east and west), one at the Ash Pond Agri-Drains, and two in the Stilling Pond.
- Continued daily TSS monitoring at the Ash Pond Agri-Drains and Stilling Pond.

Air Sampling

- Air monitoring results for April, 2013 from the PM2.5 TVA air samplers were below the current Ambient Air Monitoring Plan (AAMP) action levels.

Biota Sampling

- Continued monitoring bird boxes for 2013 tree swallow season.
- Initiated Spring Fish Bioaccumulation and Health studies. Sampling expected to continue into May 2013.

Data Management

- Provided monthly surface water and air monitoring results to the U.S. Environmental Protection Agency (EPA).

Non-Routine Sampling

- Continued sample collection and on-site moisture testing in support of Dredge Cell and Ballfield operations.
- Continued confirmation sampling support for Middle Embayment ash removal.
- Continued spoils runoff sampling from the two tanks of spoils material associated with the Perimeter Wall Stabilization (PWS) project.
- Collected surface and subsurface soil samples from Gupton Farm for geotechnical testing to be performed by S&ME.

DREDGE CELL

- Ash stacking continued next to Segment 1 as weather permitted. Continued the removal of the temporary windrow stockpiles in the Dredge Cell.
- Completed construction of the Perimeter Berm (sand / clay borrow) on the southwestern arm of Segment 1. Completed the cut-down of the Segment 7 platform and began construction of the Perimeter Berm.
- Completed preparing the working platform for Segment 5 spoils containment area.
- Geo-Con continued PWS construction between one and two rigs on Segment 6 and one rig on Segment 5.
- Continued drying of spoils in the Relic Area of the Dredge Cell.
- Griffin completed installing well points for Segment 5 and continued operating the deep and shallow well points for dewatering of both Segments 6 and 5.
- Completed interface shear testing of the multilayer cap components.
- S&ME completed instrument abandonment in the Dredge Cell.

LATERAL EXPANSION

- Ash stacking continued in the Lateral Expansion as weather permitted; although, most stacking was deferred to the Dredge Cell for the first half of the month.
- S&ME continued coring in Segment 2 and began coring in Segments 3 and 4.
- GeoCon completed cold joint repairs and continued predrilling and jet grouting for defect repairs in Segment 2.

RIVER SYSTEM RESTORATION

- Received Draft Addendum Report to the Groundwater Flow Model from Geosyntec. Report is currently undergoing TVA review.
- Draft Long-Term Monitoring Plan submitted to agencies for review on April 8, 2013.

EMBAYMENT RESTORATION AND RECREATION AREA DEVELOPMENT

- Continued design efforts for the revisions to the boat ramp in the Lakeshore Recreation area.
- Continued design efforts for the recreation and restoration features for the Berkshire and Borrow areas.
- Continued trail construction for Lakeshore Phase 1.
- Continued design efforts for the Berkshire Ballfield design. The next meeting with Roane County to discuss the design is planned for the end of May, 2013.

MIDDLE EMBAYMENT

- Ash removal from the Middle Embayment was carried out during April, 2013.
- Ash removal along the Clean Water Ditch required removal and replacement of the Clean Water Ditch Berm as cleaning progressed.
- Weekly Middle Embayment status reports were submitted.
- Rock from T-2 sediment pond was recovered for use in other features and disposal in the Ash Pond area.

OUTREACH / COMMUNICATIONS

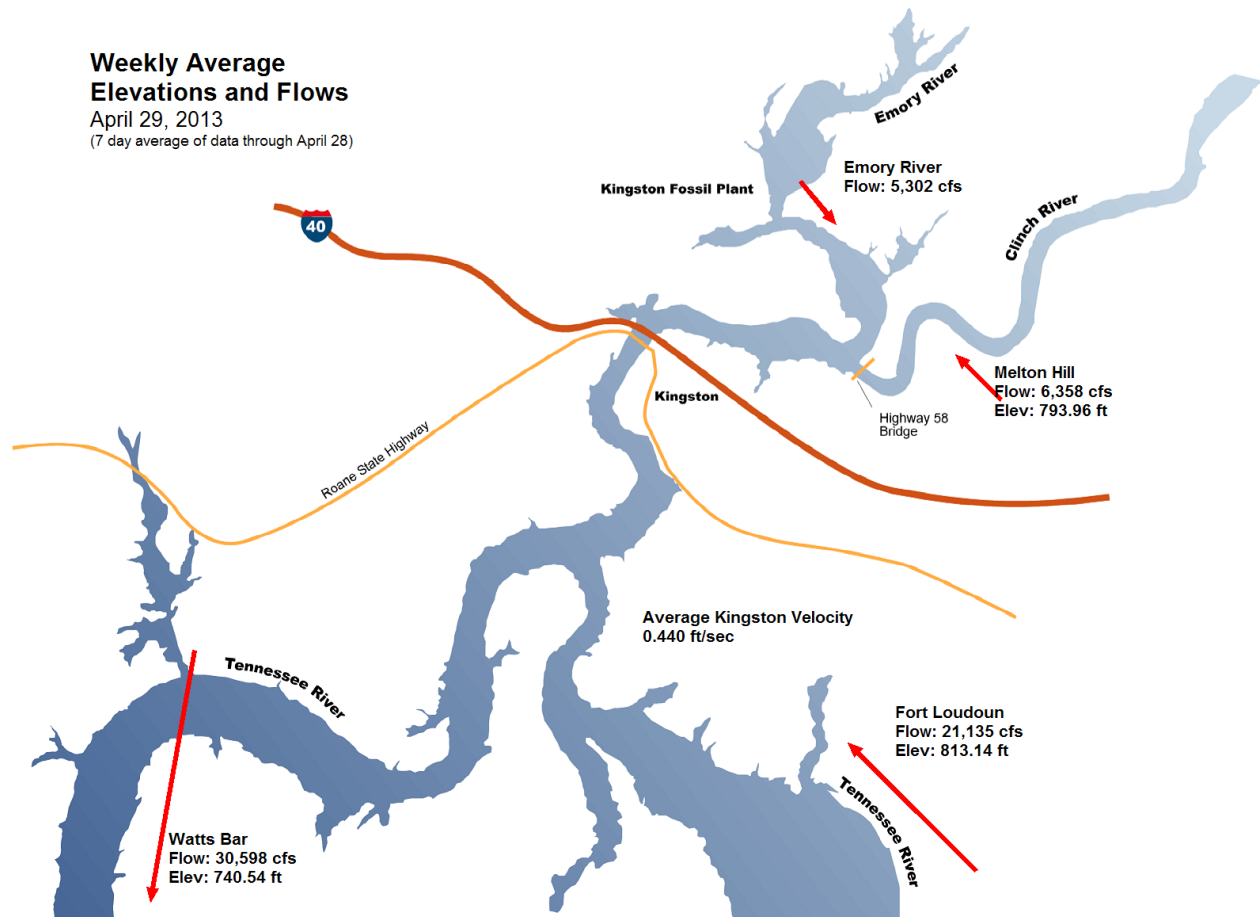
- Added weekly area resident updates to Kingston Ash Recovery (KRP) website.
- Sent weekly updates to the Community Advisory Group (CAG), public officials and members of the public who have signed up to receive weekly emails.
- Met with the CAG to share information from a questionnaire that was distributed to local residents as part of the Community Involvement Plan.
- Met with CAG to provide an update on the project.
- Updated administrative records with work plans and relevant documents.
- Continued to respond to calls from residents.
- Updated site bulletin boards.
- Scheduled a Public Meeting for Thursday, May 30, 2013 at the Roane County High School Auditorium to discuss a site update and the Long-Term Monitoring Plan.

RIVER OPERATIONS

Weekly Average Elevations and Flows

April 29, 2013

(7 day average of data through April 28)



PWS - Construction and Assessment Status

	PWS CONSTRUCTION			QC CONSTRUCTION			DEFECT MITIGATION			QC DEFECT MITIGATION			COLD JOINT MITIGATION			APPROVAL/ CONCURRENCE		COMMENTS
	Installed	Cured	Core	Assessed	Delivered	Field Addendum	Pre-Drilled	Jet Grouted	Core	Assessed	Pre-Drilled	Jet Grouted	Core	Assessed	TVA	EPA		
SEGMENT 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	19-Oct-2012	
SEGMENT 8	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	22-Feb-2013	
SEGMENT 7	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%	23-Mar-2013	
SEGMENT 2	100%	100%	100%	94%	88%	75%	44%	41%	0%	0%	100%	100%	0%	0%	0%	0%	20-May-2013	

NOTE
 1. OF SEGMENT 1 INFORMATION
 COMPLETE AS OF FEBRUARY 2, 2013.





LEGEND
 CONSTRUCTION COMPLETED
 MITIGATION
 EPA APPROVED
 TEST PILES & APPROVED TO DATE

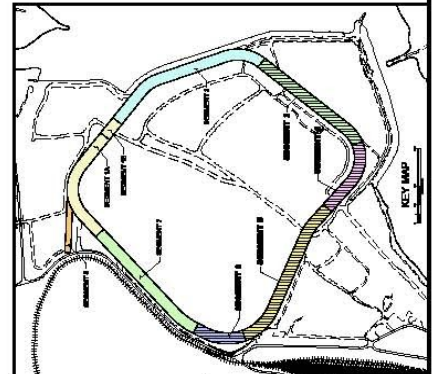
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**PERIMETER WALL STABILIZATION
SEGMENTS 3, 4, 5, AND 6
CONSTRUCTION PROGRESS
AS OF APRIL 27, 2013**

PWS - Construction and Assessment Status

	PWS CONSTRUCTION			QC CONSTRUCTION				DEFECT MITIGATION			QC DEFECT MITIGATION			COLD JOINT MITIGATION			APPROVAL/ CONCURRENCE		COMMENTS
	Installed	Cored		Cored	Assessed	Delimited	Field Addendum	Pre-Drilled	Jet Grouted	Cored	Assessed		Pre-Drilled	Jet Grouted	Cored	Assessed	TVA	EPA	
SEGMENT 4	100%	25%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10-Jul-2013
SEGMENT 3	100%	17%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	06-Aug-2013
SEGMENT 6	22%	0%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	19-Dec-2013
SEGMENT 5	16%	0%		0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	21-Jan-2014

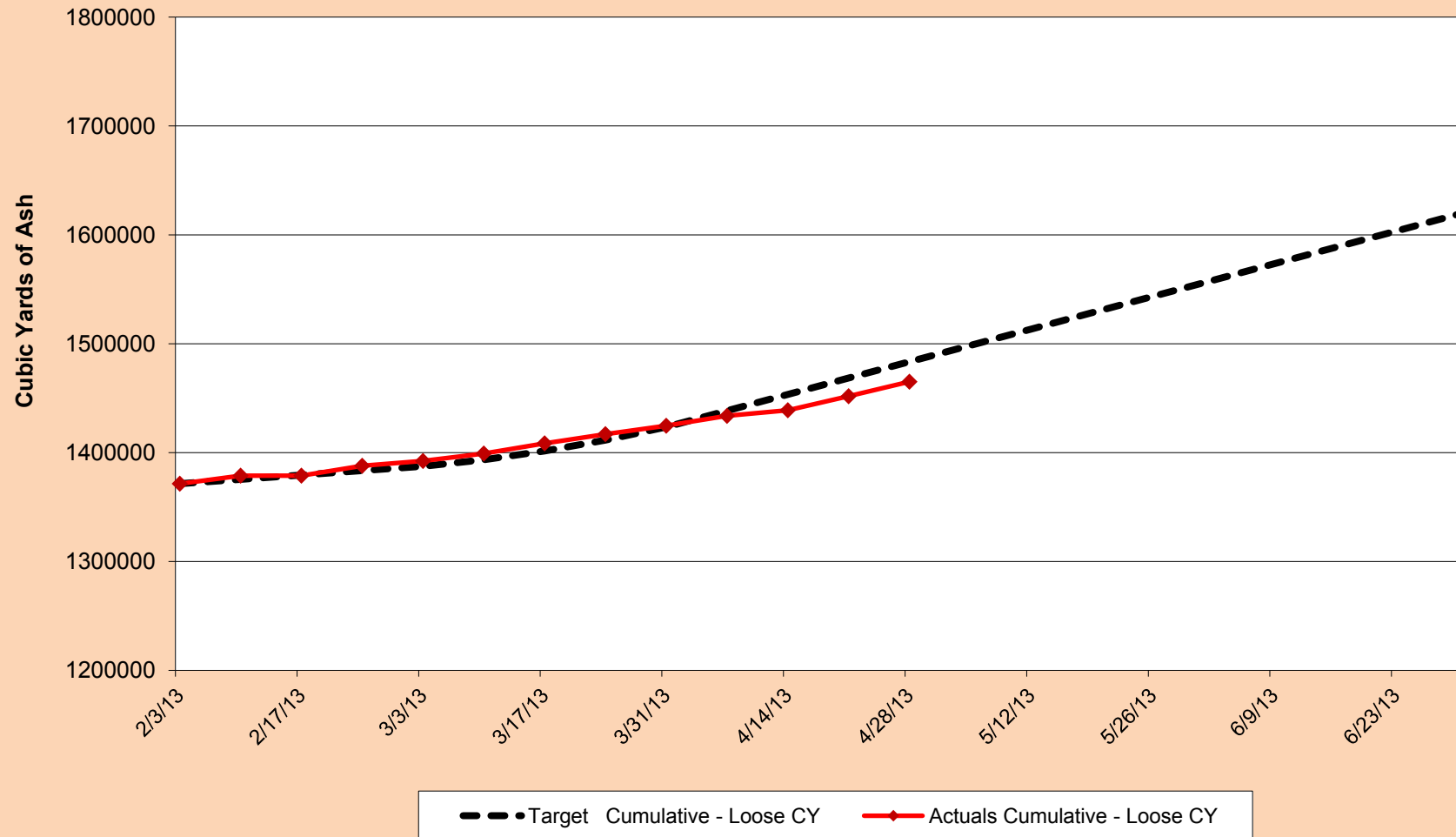
LEGEND
 CONSTRUCTION COMPLETED
 MITIGATION
 E/P APPROVED
 TEST PANELS APPROVED TO DATE:
 SEGMENT 3
 SEGMENT 4
 SEGMENT 5
 SEGMENT 6
 SCALE IN FEET
 0 100 200 400



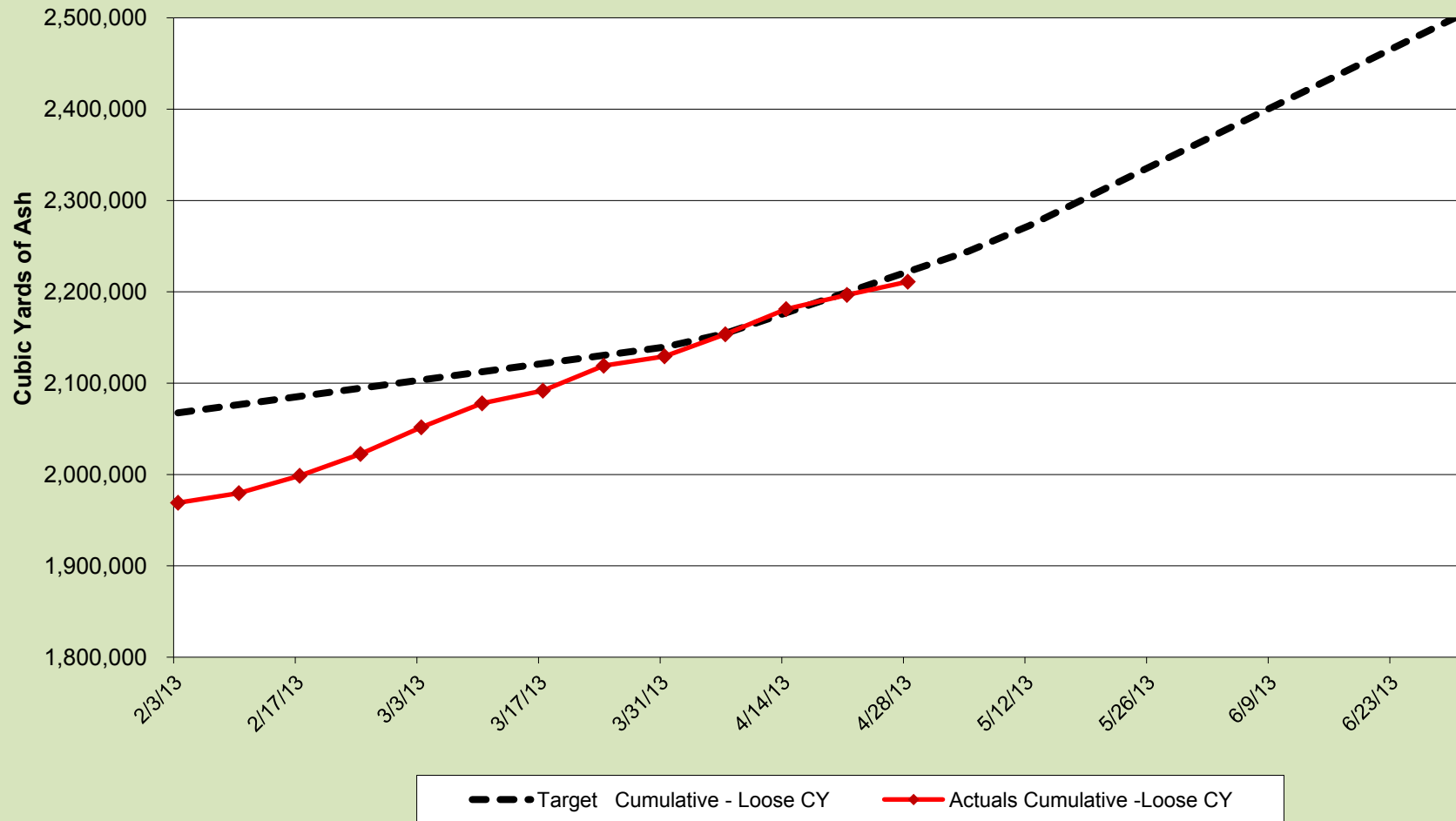
Kingston Recovery Program Management Site - April, 2013 - Field Report				
Safety		Monthly Total	FY – Cumulative Total	
Near Misses		0	0	
First Aid Incidents		0	6	
Recordable Incidents		0	1	
Recordable Lost Time Incidents		0	0	
Environmental	Matrix	Samples	Analyses	Results
Organization - TVA	Surface / Utility Water	5,837	48,683	243,909
Organization - TVA	Groundwater (Spring & Well)	266	2,830	13,769
Organization - TVA	Ash	769	1,299	9,584
Organization - TVA	Soil / Sediment	3,828	6,070	36,527
Organization - TVA	Biota	5,549	13,499	141,007
Work Description		Period Work Performed (CYIP)	PTD Work Performed (CYIP)	
Ash Removal / Excavation				
Total Removed from Middle Embayment		-	1,016,864	
Total Removed from North Embayment		-	1,010,322	
Total Removed from Settling Basins / Dike 2		6,536	89,323	
Total Removed from Swan Pond Road Corridor		-	1,622	
Excavated Total		6,536	2,118,131	
Work Description		Period Work Performed (CCY)	PTD Work Performed (CCY)	
Placement				
Total Placed in Dredge Cell		10,446	1,499,798	
Total Placed in Lateral Expansion		11,794	667,921	
Total Placed in Ash Pond		1,840	418,181	
Total Placed in Stilling Pond		-	17,641	
Placed Total		24,080	2,585,899	
Work Description		Period Work Performed (CCY)	PTD Work Performed (CCY)	
Storage Handling				
Total Removed from Lateral Expansion		-	54,446	
Total Removed from Dredge Cell		15,421	1,006,770	
Total Removed from Ballfield		5,974	495,276	
Removed from Storage Total		21,395	1,556,492	
Net Removed to(from) Ballfield Storage		(5,818)	(150,091)	

For period ending April 30, 2013.

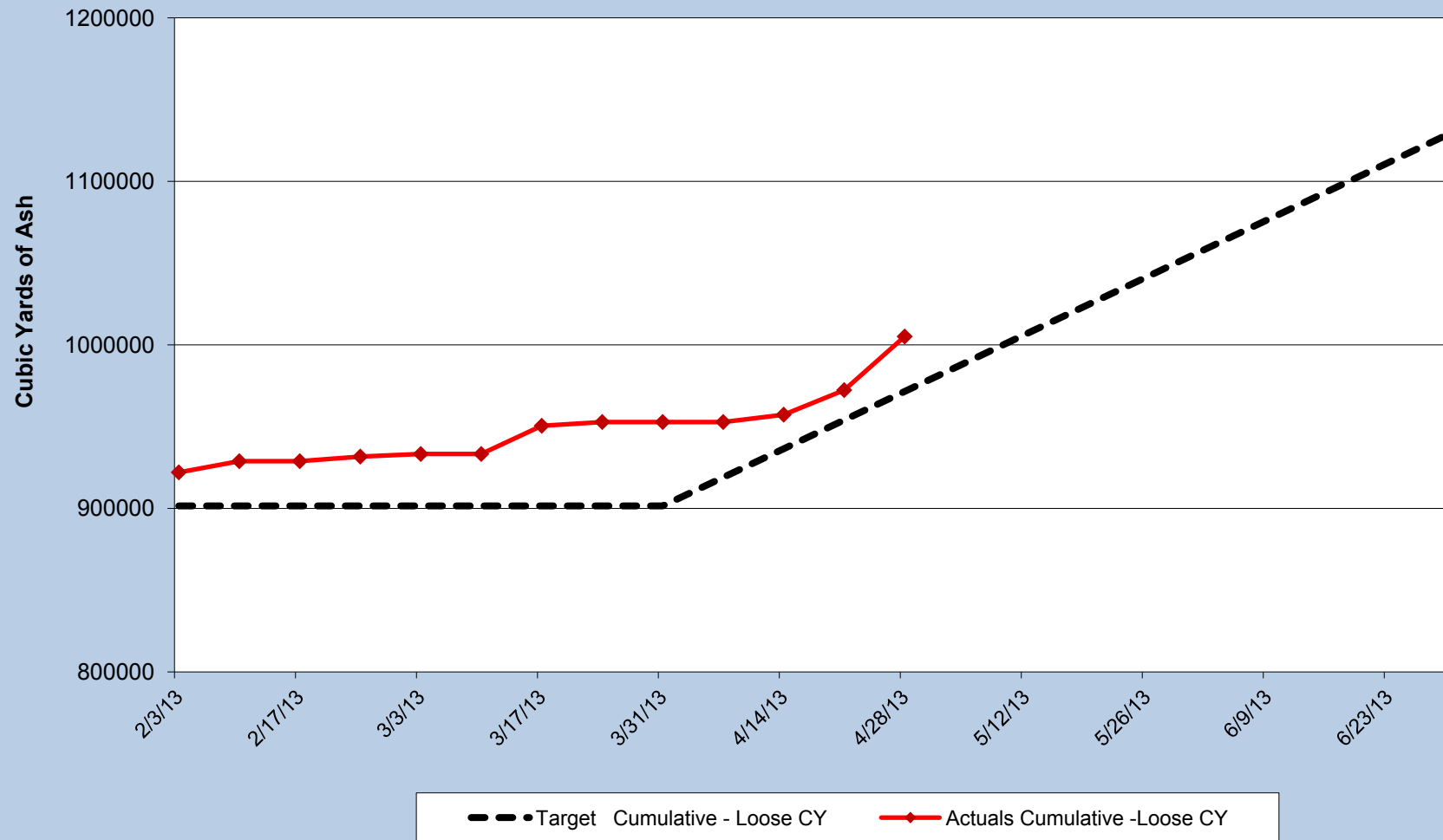
Ash Excavation from Middle Embayment Weekly as of April 28, 2013



Ash Stacking in Dredge Cell Weekly as of April 28, 2013



**Ash Stacking in Lateral Expansion
Weekly as of April 28, 2013**



Perimeter Wall Stabilization Segments 5 & 6 Weekly as of April 28, 2013

